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[BOOK] Distributed systems

AS Tanenbaum, M Van Steen... - 2002 - Citeseer

... High Performance Networks • Clusters and Computational **Grids** Course Outline ... Process: Key:**Computer:** Clients invoke individual servers ... IP, ATM virtual circuits Data link Responsible for transmission of packets between **nodes** that are directly connected by a physical link. ...

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[\[PDF\] from psu.edu](#)**A grid-enabled MPI: Message passing in heterogeneous distributed computing systems**

I Foster... - Proceedings of the 1998 ACM/IEEE ... , 1998 - portal.acm.org

... environment of Figure 1 might well first reduce within each SMP **node**, then within ... DeKalb, Ill., and a Resident Associate Guest in the Mathematics and **Computer** Science Division ... interests include techniques required to execute message passing programs in **grid** environments. ...

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[\[PDF\] from psu.edu](#)**Dynamic virtual clusters in a grid site manager**

JS Chase, DE Irwin, LE Grit, JD Moore... - 2003 - computer.org

... longstanding assumption that software en- vironments and applications are bound to specific **computer** systems that ... The **node** configuration cost—which is on the order of seconds, or minutes for a ... long runs of **resource-** intensive applications, which are typical in a **grid** setting. ...

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[\[PDF\] from psu.edu](#)**Nimrod/G: An architecture for a resource management and scheduling system in a global computational grid**

R Buyya, D Abramson... - hpc, 2000 - computer.org

... School of **Computer** Science and ... The current version also uses these services along with the new features (such as **Grid** Directory Information Services) supported by the ... clusters of computers (such as Beowulf-class Linux clusters) it is common for only the master **node** to be ...

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[\[PDF\] from arxiv.org](#)**From virtualized resources to virtual computing grids: the In-VIGO system**

S Adabala, V Chadha, P Chawla... - ... Generation Computer ... , 2005 - Elsevier

... As a distributed computing system that includes processing **nodes**, storage devices, networks, software applications, and user ... and finally recover the results using a laptop or from a public **computer** of an ... in In-VIGO entails: (1) the installation of a tool in **grid**-enabled resources, (2 ...

Cited by 184 - Related articles - All 20 versions

[\[PDF\] from psu.edu](#)**High performance parametric modeling with Nimrod/G: Killer application for the global grid?**

D Abramson, J Giddy... - Parallel and Distributed ... , 2002 - IEEE Explore IEEE.org

... the file transfer commands, as well as the execution of the model on the remote **node**. ... Accordingly, it is not possible to consider the **Grid** as a single **computer** system under the **control** ... understanding of its problem domain as well as the nature of the computational **Grid** to provide ...

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[\[PDF\] from psu.edu](#)**Grid information services for distributed resource sharing**

K Czajkowski, S Fitzgerald, I Foster... - High Performance ... , 2002 - IEEE Explore IEEE.org

... A superscheduler routes computational requests to the "best" available **computer** in a **Grid** ... VO-neutral infrastructure providing **access** to detailed, dynamic information about **Grid** entities. ... for a compute **resource** might provide information about the number of **nodes**, amount of ...

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[\[PDF\] from psu.edu](#)**A taxonomy and survey of grid resource management systems for distributed computing**

K Krauter, R Buyya... - Software: Practice and ... , 2002 - Wiley Online Library

... INTRODUCTION A distributed network computing (NC) system is a virtual **computer** formed by a networked set of heterogeneous machines that agree to share their local resources with each other. ... Hard QoS support is provided when all **nodes** in the **Grid** can police the SLAs ...

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[\[PDF\] from psu.edu](#)**A computational economy for grid computing and its implementation in the Nimrod-G resource broker**

D Abramson, R Buyya... - Future Generation Computer Systems, 2002 - Elsevier

... c Department of **Computer** Science, Welsh e-Science Centre, Cardiff University, Cardiff, UK. ... the **grid** and performing **resource** discovery, scheduling, dispatching jobs to remote **grid nodes**, starting and managing job execution, and gathering results back to the home **node**. ...

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[\[PDF\] from arxiv.org](#)**Virtual workspaces: Achieving quality of service and quality of life in the grid**

K Keahey, I Foster, T Freeman... - Scientific Programming, 2005 - IOS Press

... a Math & **Computer** Science Division, Argonne National Laboratory, Argonne, IL 60439, USA
b University of ... site-provided installa- tion available as a workspace is providing **access** to **Grid** clients. ... in a relatively coarse-grained manner allocating the num- ber of **nodes** or amount ...

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